Oxidase Strips
Cat. #24637

INTENDED USE
Offers a rapid in vitro qualitative test to assist in the identification of microorganisms isolated from clinical specimens.

SUMMARY EXPLANATION AND PRINCIPLE
Intended to qualitatively detect the cytochrome oxidase activity (oxidase test) within one minute. Oxidase test is an important differential procedure to assist in the identification of various microorganisms isolated from clinical specimens.

PRINCIPLE
Strips are impregnated with the reagent TMPD (tetra-methyl-p-phenylenediamine dihydrochloride). This reagent acts as an artificial electron donor for bacterial cytochrome c. Upon oxidation by cytochrome c, it changes from colorless to a dark purplish-blue compound called indophenol which is readily visible by the naked eye.

REAGENTS
Strips are composed of a white color filter paper strip impregnated with TMPD reagent and anchored onto a plastic support for single-use and convenience. The formulation is stabilized against oxidation from atmospheric components and light.

PROCEDURE
1. Acclimatize the container to room temperature before opening. Remove the desired number of Oxidase Strips and promptly close the container securely. Do not insert wet objects or fingers into the container.

2. Take a sweep of pure culture or isolated colonies, with a loop, and apply directly to the Strip test area (filter paper) surface. If the growth is not moist enough, add a small drop of distilled water (10-15 μl) onto the test area of the Strip. Do not add excessive amount of water which could lead to a weak reaction. Alternatively, hold the strip and contact the bacterial colonies or the growth directly.

RESULTS
A color change to deep purplish blue, in the reaction area within 45 seconds is considered a positive test. Light blue discoloration or a color change after 45 seconds reflects a negative test.

Organism                  ATCC     Result       Interpretation
Neisseria gonorrhoeae    19424    Deep Blue     Positive
Pseudomonas aeruginosa   27853    Deep Blue     Positive
Eschericia coli           25922    No blue       Negative

USER QUALITY CONTROL
Quality control is required with at least one organism to demonstrate a positive reaction and at least another to demonstrate a negative reaction. Do not use the product if the reactions with the control organisms are not verifiable. Follow NCCLS/CLIA regulations as required.

STORAGE
Strips in the original container between 2-8°C with the provided desiccant. Protect from light and moisture. To minimize condensation, let the container acclimatize to room temperature before opening. Close the lid promptly and securely after each use.

MATERIALS NEEDED BUT NOT PROVIDED
Disposable/platinum inoculating loop or wooden applicators, quality control organisms, distilled water and a pipette are needed.

PRECAUTIONS AND WARNINGS
Always follow the standard laboratory aseptic technique, safety and infectious waste handling protocols including wearing gloves, goggles and a lab coat etc. Do not use the Strips if the expiration date has lapsed or the filter paper area shows bluish blotches or discoloration.

LIMITATIONS
Cytochrome oxidase is usually one of the initial tests to assist in the bacterial identification. Additional test are often required for the definite identification. Do not use a Tungsten/Nichrome loop. Disregard any color changes after one minute of application.
REFERENCES


ORDERING INFORMATION

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<thead>
<tr>
<th>Cat. #</th>
<th>Description</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>24637</td>
<td>Oxidase Strips</td>
<td>(25 strips)</td>
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ADDITIONAL PRODUCTS

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<tbody>
<tr>
<td>24642</td>
<td>Bacti Strips</td>
<td>(1000 strips)</td>
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<tr>
<td>24641</td>
<td>Beta Strips</td>
<td>(25 strips)</td>
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<tr>
<td>24638</td>
<td>Indole Strips</td>
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<tr>
<td>24643</td>
<td>MRSA Strips</td>
<td>(50 strips)</td>
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<tr>
<td>24636</td>
<td>Strep D Strips</td>
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<tr>
<td>24639</td>
<td>Urease Strips</td>
<td>(25 strips)</td>
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